JOURNAL OF THE INTERNATIONAL SOCIETY

ARTS SCIENCES AND TECHNOLOGY

Subject and Author Index Volume 20, 1987



Beijing Frankfurt Oxford **New York** São Paulo

Sydney

Tokyo **Toronto**

Main Editorial Office

Leonardo, 2020 Milvia Street, Berkeley, CA 94704, U.S.A.

European Editorial Office

Leonardo, 8 rue Emile Dunois, 92100 Boulogne sur Seine, France

Executive Editor Roger F. Malina

Associate Editors

Lisa Bornstein Elizabeth Crumley

Marjorie Malina Christine Maxwell

Managing Editor Pamela Grant-Ryan

Editorial Assistant

Susannah Gardiner

International Co-Editors

Rudolf Arnheim, 1113 South Seventh Street, Ann Arbor, MI 48103, U.S.A.

David Carrier, Dept. of History and Philosophy, Carnegie-Mellon University, Schenley Park, Pittsburgh, PA 15213, U.S.A.

Albert Friscia, via delle Muratte, 94, Rome, Italy

Jorge Glusberg, Centro de Arte y Communicación, Elpidio Gonzales 4070, Buenos Aires, Argentina

John H. Holloway, 43 Morland Avenue, Stoneygate, Leicester LE2 2PF, U.K.

Brigitte Kessel, rue J.B. Meunier 30, 1180 Bruxelles, Belgium

Carol Law, 7722 Lynn Avenue, El Cerrito, CA 94530, U.S.A

Sheila Pinkel, 126 Hart Avenue, Santa Monica, CA 90405, U.S.A.

Robert Preusser, 2 Willard Street Court, Cambridge, MA 02138, U.S.A.

Peter Richards, 1507 Diamond Street, San Francisco, CA 94131, U.S.A.

Itsuo Sakane, 4-15-17, Naka-Machi, Machida-Shi, Tokyo 194, Japan

Shao Dazhen, 52 Dongsibatiao, East City District, Beijing, China

Kirill Sokolov, 213 Gilesgate, Durham City, DH1 1QN, U.K.

David R. Topper, History Department, University of Winnipeg, Winnipeg, Manitoba R3B 2E9, Canada

Makepeace Tsao, 533 Antioch Drive, Davis, CA 95616, U.S.A.

Steve Wilson, 74 Coleridge, San Francisco, CA 94110, U.S.A.

Editorial Consultant Ervin Rodin

Editorial Advisors

Sonia Sheridan Istvan Hargittai Madhoor Kapur Kamal Boullata Larry Polansky

Honorary Editors

George Agoston (U.S.A.) L. Alcopley (U.S.A.) Giulio C. Argan (Italy) Roy Ascott (U.K.) Pierre Auger (France) Claude Berge (France) Max Bill (Switzerland) Vladimir Bonačić (Yugoslavia) Ray Bradbury (U.S.A.) Donald Brook (Australia) John Cage (U.S.A.) Nino Calos (Italy) Giorgio Careri (Italy) Myron A. Coler (U.S.A.) Elmer Duncan (U.S.A.) John E. Fobes (U.S.A.) Herbert W. Franke (Fed. Rep. Ger.)

Yona Friedman (Israel) Henri Gabriel (Belgium) Reginald Gadney (U.K.) Mathias Goeritz (Mexico) Sir Ernst Gombrich (U.K.) Vic Gray (New Zealand) Richard L. Gregory (U.K.) Yusuf A. Grillo (Nigeria) Anthony Hill (U.K.) Thomas T. Ichinose (Japan) Peter Lloyd Jones (U.K.) Gyorgy Kepes (U.S.A.) Otto Klineberg (U.S.A.) Richard I. Land (U.S.A.) Lin Xiaoping (China) Jacques Mandelbrojt (France) Charles Mattox (U.S.A.)

I. R. Maxwell (U.K.) Joseph Needham (U.K.) Sean O'Driscoll (Ireland) Jaroslav Pluhar (Czecho.) Frank Popper (France) Harry Rand (U.S.A.) Lord Eric Roll (U.K.) Nicolas Schöffer (France) Ronald Searle (U.K.) Allan Shields (U.S.A.) Ryszard Stanislawski (Poland) Cyril Stanley Smith (U.S.A.) K. G. Subramanyan (India) Pierre Sźekely (France) Karen Tsao (U.S.A.)

Acknowledgements

Partial support for this volume of Leonardo has been provided by the U.S. National Endowment for the Arts, Myron A. Coler, and the Marcus and Bertha Coler Philanthropic Fund.

Publisher's Offices

Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW,

ss Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, U.S.A. Tel. 914-592 7700

Advertising will be accepted from museums, art schools, book publishers, art material manufacturers, travel agencies, shipping companies etc. Address enquiries to Advertising Manager, U.K. or U.S.A. offices (addresses given above)

oform Subscriptions and Back Issues

ues of all previously published volumes are available in the regular editions and on microfilm and microfiche. Current subscriptions are available on microfiche simultaneously with the paper edition and on microfilm on completion of the annual index at the end of the subscription year. Copyright © 1988 ISAST.

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript the authors agree that the copyright for their article is transfered to ISAST if and when the article is accepted for publication. However, assignment of copyright is not required from authors who work for organisations which do not permit such assignment. The conversion covers the exclusive tight to several such assignment. who work for organisations which do not permit such assign-ment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic re-productions, microform or any other reproductions of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without per-mission in writing from the copyright holder.

Indexed/abstracted in Current Contents

Photocopying information for users in the U.S.A. The Item-fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying, beyond that permitted by Section 107 or 108 of the United States Copyright Law, is paid. The appropriate remittance of \$3.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 27 Congress Street, Salem. MA 01970.

Permission for other use. The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying. Please contact the Subsidiary Rights Manager, Publishing Services, at either Persamon Journals Ltd or Persamon Journals Inc.

The Item-Fee Code for this publication is: 0024-094X/87 \$3.00 + 0.00

LEONARDO Author/Subject Index 1987 VOLUME 20

A

Adams, J.M.

Achieving Optimum Quality in Computer Drawing. 20, 257, 1987.

AESTHETICS

Arnheim, Rudolf. Progress in Color Composition. 20, 165, 1987.

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Era of Post-Historical Art. 20, 269, 1987.

DeWitt, Tom. Visual Music: Searching for an Aesthetic. **20**, 115, 1987.

Alcopley, L.

On Knowledge in Art and Science. 20, 213, 1987.

AMES, ADELBERT JR.

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

Ames, Charles

Historical Perspectives on the Arts, Sciences and Technology. Automated Composition in Retrospect: 1956-1986. 20, 169, 1987.

Review of Meta+ Hodos: A Phenomenology of 20th Century Musical Materials and an Approach to the Study of Form and Meta Meta+ Hodos, James Tenney. 20, 192, 1987 (BR).

AMES DEMONSTRATION IN PERCEPTION

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

ANAMORPHIC ART

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

ANIMATED SCULPTURE

Lijn, Liliane. Imagine the Goddess! A Rebirth of the Female Archetype in Sculpture. 20, 123, 1987.

ARCHITECTURE

Bowlt, John. Review of Constructivist Architecture in the USSR, Anatole Kopp. 20, 197, 1987 (BR).

Gray, Vic. Review of *Le Corbusier; Ideas and Forms*, W.J. Curtis. **20**, 291, 1987 (BR).

Interview with Dominique Bozo. 20, 78, 1987.

Lloyd-Jones, Peter. Curators, Creators and Consumers. 20, 353, 1987.

Arnheim, Rudolf

Review of Alles Veloziferisch: die Eisenbahn, vom

Ungeheuer zur Asthetik der Geschwindigkeit, Dirk Hoeges. 20, 99, 1987 (BR).

Review of World War I and the Weimar Artists: Dix, Grosz, Beckman, Schlemmer, Matthias Eberle. 20, 199, 1987 (BR).

The State of the Art in Perception. 20, 305, 1987.

Theoretical Perspectives on the Arts, Sciences and Technology: Progress in Color Composition. 20, 165, 1987

Letter (Isomorphism; Roy R. Behrens). 20, 210, 1987 (L).
ART (15TH AND 16TH CENTURIES; RENAISSANCE)

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Era of Post-Historical Art. 20, 269, 1987.

Hilloowala, Rumy and Oremland, Jerome. The St. Peter's Pietà: A Madonna and Child? An Anatomical and Psychological Reevaluation. 20, 87, 1987.

ART, ABSTRACT

Halaby, Samia A. Reflecting Reality in Abstract Picturing. 20, 241, 1987.

ART, CONTEMPORARY

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Hill, Anthony. About the Immediate Future of Modern Art. 20, 349, 1987.

ART EDUCATION

Baschet, François and Baschet, Bernard. Sound Sculpture: Sounds, Shapes, Public Participation, Education. 20, 107, 1987.

ART, FUTURE OF

Clarke, Arthur C. The Songs of Distant Earth (Excerpt). 20, 308, 1987.

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Franke, Herbert W. The Expanding Medium: The Future of Computer Art. 20, 335, 1987.

Hill, Anthony. About the Immediate Future of Modern Art. 20, 349, 1987.

Polansky, Larry. The Future of Music. 20, 363, 1987. Technoscience Art: The Next Step, Ed. 20, 301, 1987.

The Future and the Functions of Art: A Conversation Between Alvin Toffler and John McHale. 20, 391, 1987.

ART HISTORY

Carrier, David. Theoretical Perspectives on the Arts,

ART, SCIENCE, TECHNOLOGY

Sciences and Technology. The Era of Post-Historical Art. 20, 269, 1987.

ART, SCIENCE, TECHNOLOGY

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Era of Post-Historical Art. 20, 269, 1987.

Technoscience Art: The Next Step, Ed. 20, 301, 1987.

ART, SOCIETY

Lloyd-Jones, Peter. Curators, Creators and Consumers. **20**, 353, 1987.

ARTIFICIAL INTELLIGENCE

Ames, Charles. Automated Composition in Retrospect: 1956-1986. 20, 169, 1987.

ARTISTS' MATERIALS

Fieux, Robert E. Walnut Oil-Litharge Priming for Canvas Paintings. 20, 262, 1987.

Rossol, Monona. Using Lead Painting Materials Safely. 20, 265, 1987.

ATHESTON, DAVID

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. **20**, 339, 1987.

AVANT GARDE ART REVIEW (AGAR)

s'Soreff, Stephen. The Malleable Memory of Avant Garde Art Review (AGAR): A Post-Conceptual Artwork. 20, 387, 1987.

B

BALLA, GIACOMO

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Baschet, Bernard

Sound Sculpture: Sounds, Shapes, Public Participation, Education (François Baschet, co-author). 20, 107, 1987.

Baschet, F.

Sound Sculpture: Sounds, Shapes, Public Participation, Education (Bernard Baschet, co-author). 20, 115, 1987.

BECKMANN, MAX

Arnheim, Rudolf. Review of World War I and the Weimar Artists: Dix, Grosz, Beckmann, Schlemmer, Matthias Eberle. 20, 199, 1987 (BR).

Behrens, Roy R.

Historical Perspectives on the Arts, Sciences and Technology: The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

Letter (To the Rescue of Art and Theoretical Perspectives on the Arts, Sciences and Technology; Rudolf Arnheim, David Carrier). 20, 209, 1987 (L).

BIOLOGY

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

Bowlt, John

Review of Constructivist Architecture in the U.S.S.R., Anatole Kopp. 20, 196, 1987 (BR).

Bozo, Dominique

Interview with Dominique Bozo (National Museum of Modern Art, Paris). 20, 78, 1987.

BOZO, DOMINIQUE

Interview with Dominique Bozo. 20, 78, 1987.

BRIXEY, SHARON

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

Brook, Donald

Review of Visual Recognition, Steven Pinkner. 20, 285, 1987 (BR).

BUBBLES

Emmer, Michele. Soap Bubbles in Art and Science: From the Past to the Future of Math Art. 20, 327, 1987.

BURGESS, LOWRY

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

Butler, Allison

Letter (Creation of Earthworks - Visual Artists for the Earth Group). 20, 205, 1987 (L).

C

CALLIGRAPHY

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

Woodward, Crystal. Art As Visual Language for Awareness of Self. 20, 225, 1987.

Carrier, David

Theoretical Perspectives on the Arts, Sciences and Technology: The Era of Post-Historical Art. 20, 269, 1987

Theoretical Perspectives on the Arts, Sciences and Technology. The Display of Art: An Historical Perspective. 20, 83, 1987.

Letter (The Display of Art: An Historical Perspective; Harry Rand, David Carrier). 20, 209, 1987 (L).

Letter (Gestalt Psychology and the Theory of Art; Rudolph Arnheim, Roy R. Behrens). 20, 210, 1987 (L).

CENTER FOR ADVANCED VISUAL STUDIES, CAVS

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

CERAMICS

Kramer, Linda. Natural and Cultural Energy: Installation Sculpture 1980-1985. 20, 23, 1987.

CHENG SHIFA

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. **20**, 47, 1987.

CHINA, PEOPLE'S REPUBLIC OF (TRADITIONAL AND CONTEMPORARY)

Senior, Alan. Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

CINEMA

DeWitt, Tom. Visual Music: Searching for an Aesthetic. **20**, 115, 1987.

CIVIC ART

Baschet, François and Baschet, Bernard. Sound Sculpture: Sounds, Shapes, Public Participation, Education. 20, 107, 1987.

Fontana, Bill. The Relocation of Ambient Sound: Urban Sound Sculpture. 20, 143, 1987.

Lloyd-Jones, Peter. Curators, Creators and Consumers. 20, 353, 1987.

Clarke, Arthur C.

The Songs of Distant Earth (Excerpt). 20, 308, 1987.

COHEN, HAROLD

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987. Reichardt, Jasia. Machines and Art. 20, 367, 1987.

Coleman, Connie

Exploring New Forms in the Visual Arts Through the Use of Electronic Tools: Videography and Computer Graphics. 20, 235, 1987.

Coler, Myron A.

Creators of Environment. 20, 309, 1987.

COLOR

Arnheim, Rudolf. Progress in Color Composition. 20, 165, 1987.

COMMUNICATION

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

COMPOSITION

Arnheim, Rudolf. Progress in Color Composition. 20, 165, 1987.

COMPUTER ART

Ames, Charles. Automated Composition in Retrospect: 1956-1986. 20, 169, 1987.

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Franke, Herbert W. The Expanding Medium: The Future of Computer Art. 20, 335, 1987.

Kapéra, Jean. Aesthetics of Communication: Newspaper Art and Travel Art. 20, 217, 1987.

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

Polansky, Larry and Levin, John. The Mills College Center for Contemporary Music's Seminar in Formal Methods Series: A Documentary Survey. 20, 155, 1987.

COMPUTER ART, TECHNIQUE

Adams, J.M. Achieving Optimum Quality in Computer Drawing. 20, 257, 1987.

COMPUTER CONTROL AND AID

Coleman, Connie. Exploring New Forms in the Visual Arts Through the Use of Electronic Tools: Videography and Computer Graphics. 20, 235, 1987.

DeWitt, Tom. Visual Music: Searching for an Aesthetic. 20, 115, 1987.

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Kikauka, Laura and Paterson, Nancy. Misplaced Affection: A Computer-Controlled Interactive Household Appliance Environment. 20, 247, 1987.

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

Polansky, Larry and Levin, John. The Mills College Center for Contemporary Music's Seminar in Formal Methods Series: A Documentary Survey. 20, 155, 1987.

Reichardt, Jasia. Machines and Art. 20, 367, 1987.

Shortess, George K. Interactive Sound Installations Using Microcomputers. 20, 149, 1987.

Comte, Pierre

Leonardo in Orbit: Satellite Art. 20, 17, 1987. Letter (Satellite Art; Pierre Comte, Jean-Claude Pecker). 20, 298, 1987 (L).

CONCEPTUAL ART

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

s'Soreff, Stephen. The Malleable Memory of Avant Garde Art Review (AGAR): A Post-Conceptual Artwork. 20, 387, 1987. CONCRETE ART

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

CONCRETE POETRY

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

CONSTRUCTIVISM

Bowlt, John. Review of *Constructivist Architecture in the USSR*, Anatole Kopp. **20**, 197, 1987 (BR).

Halaby, Samia A. Reflecting Reality in Abstract Picturing. 20, 241, 1987.

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

CREATIVE BLOCK

Jankowicz, A.D. Construing Artistic Imagery: An Alternative Approach to Creative Block. 20, 39, 1987.

CREATIVITY

Coler, Myron A. Creators of Environment. 20, 309, 1987.Halaby, Samia A. Reflecting Reality in Abstract Picturing. 20, 241, 1987.

Jankowicz, A.D. Construing Artistic Imagery: An Alternative Approach to Creative Block. 20, 39, 1987.

Crozier, Ra

Review of *Art and Psyche*, Ellen Handler Spitz. **20**, 99, 1987 (BR).

CUBISM

Halaby, Samia A. Reflecting Reality in Abstract Picturing. 20, 241, 1987.

CULTURE

Kikauka, Laura and Paterson, Nancy. Misplaced Affection: A Computer-Controlled Interactive Household Appliance Environment. 20, 247, 1987.

Lloyd-Jones, Peter. Curators, Creators and Consumers. **20**, 353, 1987.

D

DANTO, ARTHUR

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Era of Post-Historical Art. 20, 269, 1987.

DAVIS, JOE

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. **20**, 339, 1987.

DeFillips Brush, Gloria

Photographing Small-Scale Objects: History, Context and Format. 20, 231, 1987.

Dewitt, Tom

Visual Music: Searching for an Aesthetic. 20, 115, 1987. Letter (Computers and Music, Design Algorithms; John Whitney). 20, 297, 1987 (L).

Dietrich, Frank

The Computer: A Tool for Thought Experiments. 20, 315, 1987.

DIX, OTTO

Arnheim, Rudolf. Review of World War I and the Weimar Artists: Dix, Grosz, Beckmann, Schlemmer, Matthias Eberle. 20, 199, 1987 (BR).

Dohemann, Warren

Letter (Complementarity of Science and Art Courses: Nik Warren, David Saxon). 20, 206, 1987 (L).

DOUAT

Smith, Cyril Stanley. The Tiling Patterns of Sebastien

DRAWINGS

Truchet and the Topology of Structural Hierarchy. 20, 373, 1987.

DRAWINGS

Woodward, Crystal. Art As Visual Language for Awareness of Self. 20, 225, 1987.

Duncan, Elmar H.

Review of Art and Its Objects, Richard Wollheim. 20, 289, 1987 (BR).

Review of *Creation and Interpretation*, Raphael Stern. 20, 288, 1987 (BR).

Review of Music, Film and Art, Haig Khatchadourian. 20, 292, 1987 (BR).

E

ELDRED, DALE

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

Emmer, Michele

Soap Bubbles in Art and Science: From the Past to the Future. 20, 327, 1987.

ENVIRONMENTAL ART: INSTALLATIONS

Coleman, Connie. Exploring New Forms in the Visual Arts Through the Use of Electronic Tools: Videography and Computer Graphics. 20, 235, 1987.

Kikauka, Laura and Paterson, Nancy. Misplaced Affection: A Computer-Controlled Interactive Household Appliance Environment. 20, 247, 1987.

Kramer, Linda. Natural and Cultural Energy: Installation Sculpture 1980-1985. 20, 23, 1987.

Shortess, George K. Interactive Sound Installations Using Microcomputers. 20, 149, 1987.

ERNST, MAX

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

ESCHER, M.C

Malina, Roger F. Review of M.C. Escher; Art and Science, H.S.M. Coxeter et al. 20, 291, 1987 (BR).

EVOLUTION

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

EXHIBITIONS

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Display of Art: An Historical Perspective. 20, 83, 1987.

Hill, Anthony. About the Immediate Future of Modern Art. 20, 349, 1987.

Technoscience Art: The Next Step, Ed. 20, 301, 1987.

F

FEYNMAN, RICHARD

Stahl, Frieda A. Physics As Metaphor and Vice Versa. 20, 57, 1987.

Fieux, Robert E.

Walnut Oil-Litharge Priming for Canvas Paintings. 20, 262, 1987.

Finkenbeiner, Gerhard

The Glass Harmonica: A Return from Obscurity. 20, 139, 1987.

FISCHER, MABEL

Jankowicz, A.D. Construing Artistic Imagery: An Alternative Approach to Creative Block. 20, 39, 1987.

FORMANT MUSIC (WHISPER MUSIC)

Robson, Ernest. Research of the Sounds of Literature: Formant Music and a Prosodic Notation for Performance. 20, 131, 1987.

FRACTALS

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.
 Senior, Alan. Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

Franke, Herbert W.

The Expanding Medium: The Future of Computer Art. **20**, 335, 1987.

FU BAOSHI

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

FUTURISM

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

G

GEOMETRICAL SHAPES AND FORMS

Emmer, Michele. Soap Bubbles in Art and Science: From the Past to the Future of Math Art. 20, 327, 1987.

Smith, Cyril Stanley. The Tiling Patterns of Sebastien Truchet and the Topology of Structural Hierarchy. 20, 373, 1987.

Wiggs, Robert Adolphus. Lines and Junctions and the Topology of Space. 20, 65, 1987.

GESTALT PSYCHOLOGY

Arnheim, Rudolf. The State of the Art in Perception. 20, 305, 1987.

GLASS HARMONICA

Finkenbeiner, Gerhard and Meyer, Vera. The Glass Harmonica: A Return from Obscurity. 20, 139, 1987.

GLASS MUSIC

Finkenbeiner, Gerhard and Meyer, Vera. The Glass Harmonica: A Return from Obscurity. 20, 139, 1987.

Goldring, Elisabeth

Desert Sun/Desert Moon and the SKY ART Manifesto. **20**, 339, 1987.

Grant-Ryan, Pamela

Leonardo: The Third Decade (Roger Malina, co-author). **20**, 1, 1987.

Why Leonardo? Past, Present and Future. 20, 397, 1987.

GRAPHIC ART

Semenoff, Nik. Superior Tusche Washes Using Dry Copier Toners. 20, 71, 1987.

Vess, Sabine. Art as a Link Between Past and Future: Zinc Etchings Inspired by Bruno Schulz. 20, 35, 1987.

GRAPHIC ART (ETCHING, TECHNIQUES)

Vess, Sabine. Art as a Link Between Past and Future: Zinc Etchings Inspired by Bruno Schulz. 20, 35, 1987.

GRAPHIC ART (LITHOGRAPHY, TECHNIQUES)

Semenoff, Nik. Superior Tusche Washes Using Dry Copier Toners. 20, 71, 1987.

GRAPHIC ART (SERIGRAPHY, TECHNIQUES)

Semenoff, Nik. Superior Tusche Washes Using Dry Copier Toners. 20, 71, 1987.

Gray, Vic

Review of Art and Education, Donald Brook. 20, 196, 1987 (BR).

Review of A History of Illuminated Manuscripts, Christopher de Hamel. 20, 100, 1987 (BR).

Review of Le Courbusier: Ideas and Forms, William J. Curtis. 20, 291, 1987 (BR).

GROSZ, GEORGE

Arnheim, Rudolf. Review of World War I and the Weimar Artists: Dix, Grosz, Beckmann, Schlemmer, Matthias Eberle. 20, 199, 1987 (BR).

GUAN SHANYUE

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

H

Halaby, Samia A.

Reflecting Reality in Abstract Picturing. 20, 241, 1987.

HEALTH

Rossol, Monona. Using Lead Painting Materials Safely. **20**, 265, 1987.

Hill, Anthony

On the Immediate Future of Modern Art. 20, 349, 1987.

Hilloowala, Rumy

Historical Perspectives on the Arts, Sciences and Technology. The St. Peter's Pietà: A Madonna and Child? An Anatomical and Psychological Reevaluation. 20, 87, 1987.

HOHN, HUBERT

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

HOLOGRAPHY

Richardson, Martin. Mixed Media: Holography Within Art. 20, 251, 1987.

Hopkin, Bart

Letter (Sound Sculpture; Bernard and François Baschet). **20**, 205, 1987 (L).

HUANG BINHONG

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

HUANG ZHOU

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

HUMAN VALUES, AESTHETIC VALUES

Arnheim, Rudolf. The State of the Art in Perception. 20, 305, 1987.

I

IDEOGRAM

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

ILLUSIONS

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

IMAGINARY ARCHITECTURE

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987. INSTALLATION SCULPTURES

Kramer, Linda. Natural and Cultural Energy: Installation Sculpture 1980-1985. 20, 23, 1987.

INTERACTIVE SOUND INSTALLATIONS

Shortess, George K. Interactive Sound Installations Using Microcomputers. 20, 149, 1987.

INTUITION

Halaby, Samia A. Reflecting Reality in Abstract Picturing. 20, 241, 1987.

J

Jankowicz, A.D.

Constructing Artistic Imagery: An Alternative Approach to Creative Block. 20, 39, 1987.

Letter (Construing Artistic Imagery, Creative Block; A.D. Jankowicz, Rosamund Osbourne). 20, 298, 1987 (L).

Jones, Peter Lloyd

Curators, Creators and Consumers. 20, 353, 1987.

K

Kapéra, Jean

Aesthetics of Communication: Newspaper Art and Travel Art. 20, 217, 1987.

KELLY, G.A.

Jankowicz, A.D. Construing Artistic Imagery: An Alternative Approach to Creative Block. 20, 39, 1987.

Kevles, Bettyann

Review of Art and Technology; A Time-Line Review 18,000 BC to the Present, Bonnie Wilder. 20, 96, 1987 (BR).

KIEHOLZ, EDWARD

Reichardt, Jasia. Machines and Art. 20, 367, 1987.

Kikauka, Laura

Misplaced Affection: A Computer-Controlled Interactive Household Appliance Environment. 20, 247, 1987.

KLEE, PAUL

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

KNOTT, LAURA

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. **20**, 339, 1987.

Kramer, Linda

Natural and Cultural Energy: Installation Sculpture 1980-1985. 20, 23, 1987.

KRIESCHE, RICHARD

Reichardt, Jasia. Machines and Art. 20, 367, 1987.

L

LANGUAGE

Polansky, Larry and Levin, John. The Mills College Center for Contemporary Music's Seminar in Formal Methods Series: A Documentary Survey. 20, 155, 1987.
Stahl, Frieda A. Physics As Metaphor and Vice Versa. 20, 57, 1987.

LASERS

Richardson, Martin. Mixed Media: Holography Within Art. 20, 251, 1987.

LE CORBUSIER (JEANNERET, CHARLES-EDWARD

LE CORBUSIER (JEANNERET, CHARLES-EDWARD)

Gray, Vic. Review of *Le Corbusier; Ideas and Forms*, W.J. Curtis. **20**, 291, 1987 (BR).

LE WITT, SOL

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Lebell, Sharon

Review of *The Female Body in Western Culture:*Contemporary Perspectives, Susan Rubin Suleiman. 20, 286, 1987 (BR).

Review of Reflections on Gender and Science, Evelyn Fox Keller. 20, 98, 1987 (BR).

Review of *Travels in Hyperreality*, Umberto Eco. **20**, 292, 1987 (BR).

LEONARDO DA VINCI

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

Coler, Myron A. Creators of Environment. 20, 309, 1987.

LEONARDO, JOURNAL OF ISAST

Grant-Ryan, Pamela. Why Leonardo? Past, Present and Future. 20, 397, 1987.

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Display of Art: An Historical Perspective. 20, 83, 1987.

Maxwell, Robert. The Future of Publishing. 20, 361, 1987.

Levin, John

The Mills College Center for Contemporary Music's Seminar in Formal Methods Series: A Documentary Survey. 20, 155, 1987.

Levy, Ellen K.

Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

LI HUASHENG

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

LI KERAN

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

LIGHT SCULPTURE

Lijn, Liliane. Imagine the Goddess! A Rebirth of the Female Archetype in Sculpture. 20, 123, 1987.

Lijn, Liliane

Imagine the Godess! A Rebirth of the Female Archtype in Sculpture. 20, 123, 1987.

LIN FENGMIAN

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

LITERATURE

Stahl, Frieda A. Physics As Metaphor and Vice Versa. 20, 57, 1987.

Vess, Sabine. Art as a Link Between Past and Future: Zinc Etchings Inspired by Bruno Schulz. 20, 35, 1987.

LITHOGRAPHY

Semenoff, Nik. Superior Tusche Washes Using Dry Copier Toners. 20, 71, 1987.

LIUI HAISU

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

Lloyd Jones, Peter

Review of A Cognitive Theory of Metaphor, Earl R. MacCormac. 20, 96, 1987 (BR).

Loch A.L.

Review of *Synergetics Dictionary*, E.J. Applewhite. **20**, 98, 1987 (BR).

Luke, Joy Turner

Letter (New Technologies in Art - Where Art and Science Meet; Anna Campbell Bliss). 20, 299, 1987 (L).

M

McHale, John

The Future and the Functions of Art. 20, 391, 1987.

MACHINE SCULPTURE

Reichardt, Jasia. Machines and Art. 20, 367, 1987.

McWhinnie, Harold J.

Letter (Comments on 'The Evolution of Italian Painting: A Quantitative Investigation of Trends in Style and Content from the Late Gothic to the Rococo Period'; Colin Martidale). 20, 211, 1987 (L).

MALEVICH, KAZIMIR

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Malina, F.J.

Electric Light as a Medium in the Visual Fine Arts: A Memoir (Reprint). 20, 407, 1987.

Kinetic Painting: The Lumidyne System (Reprint). 20, 400, 1987.

MALINA, FRANK J.

Bio-Bibliography of Frank J. Malina. 20, 417, 1987.

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

Grant-Ryan, Pamela. Why Leonardo? Past, Present and Future. 20, 397, 1987.

Malina, R.F.

Leonardo: The Third Decade (Pamela Grant-Ryan, coauthor). 20, 1, 1987.

Review of Artists Talk About Technology; Artists/ Techniques, Elizabeth Chitty. 20, 289, 1987 (BR).

Review of Foundation Grants to Individuals, Loren Renz. 20, 293, 1987 (BR).

Review of M.C. Escher: Art and Science, H.S.M. Coxeter et al. 20, 291, 1987 (BR).

Visual Art, Sound, Music and Technology. 20, 103, 1987. Mallary, R.

Letter (Sky, Scale and Technology in Art; Robert Russett). 20, 208, 1987 (L).

Mańczak, Aleksandra

Photography and Textile Art: Tapestry in the Form of a Triptych. 20, 27, 1987.

MANDELBROT, BENOIT B.

Senior, Alan. Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

MANET, EDOUARD

Emmer, Michele. Soap Bubbles in Art and Science: From the Past to the Future of Math Art. 20, 327, 1987.

Marcus, Aaron

Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

Martindale, Colin

Letter (How Should Art History Be Studied). 20, 211, 1987 (L).

MATH ART

Emmer, Michele. Soap Bubbles in Art and Science: From the Past to the Future of Math Art. 20, 327, 1987. Maxwell, Robert I. The Future of Publishing. 20, 361,

1987.

MEETINGS

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

Malina, Roger F. Review of M.C. Escher; Art and Science, H.S.M. Coxeter et al. 20, 291, 1987 (BR).

MENTAL IMAGES

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

METAPHORS

Stahl, Frieda A. Physics As Metaphor and Vice Versa. 20, 57, 1987.

MICHELANGELO BUONARROTI

Hilloowala, Rumy and Oremland, Jerome. The St. Peter's Pietà: A Madonna and Child? An Anatomical and Psychological Reevaluation. 20, 87, 1987.

MILLS COLLEGE CENTER FOR CONTEMPORARY MUSIC

Polansky, Larry and Levin, John. The Mills College Center for Contemporary Music's Seminar in Formal Methods Series: A Documentary Survey. 20, 155, 1987.

MODERN ART

Hill, Anthony. About the Immediate Future of Modern Art. 20, 349, 1987.

MODERN FORMALIST ART

Lloyd-Jones, Peter. Curators, Creators and Consumers. **20**, 353, 1987.

MODERNISM

Hill, Anthony. About the Immediate Future of Modern Art. 20, 349, 1987.

MODERNIST ART

Hill, Anthony. About the Immediate Future of Modern Art. 20, 349, 1987.

MOHOLY-NAGY, LASZLO

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

MOORMAN, CHARLOTTE

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

MULTIMEDIA

Kapéra, Jean. Aesthetics of Communication: Newspaper Art and Travel Art. 20, 217, 1987.

Lijn, Liliane. Imagine the Goddess! A Rebirth of the Female Archetype in Sculpture. 20, 123, 1987.

Richardson, Martin. Mixed Media: Holography Within Art. 20, 251, 1987.

MUSEUMS

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Display of Art: An Historical Perspective. 20, 83, 1987.

Interview with Dominique Bozo. 20, 78, 1987.

MUSIC

Ames, Charles. Automated Composition in Retrospect: 1956-1986. 20, 169, 1987.

Polansky, Larry. The Future of Music. 20, 363, 1987. Polansky, Larry and Levin, John. The Mills College Center for Contemporary Music's Seminar in Formal Methods Series: A Documentary Survey. 20, 155, 1987.

MUSICAL INSTRUMENTS

Baschet, François and Baschet, Bernard. Sound Sculpture: Sounds, Shapes, Public Participation, Education. 20, 107, 1987. Finkenbeiner, Gerhard and Meyer, Vera. The Glass Harmonica: A Return from Obscurity. 20, 139, 1987.

N

Narodny, Leo

Review of *Origins of Materials and Processes*, John Delmonte. **20**, 100, 1987 (BR).

Review of Solid Cues, Gerald Feinberg. 20, 199, 1987 (BR).

NATURE

Senior, Alan. Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

Woodward, Crystal. Art As Visual Language for Awareness of Self. 20, 225, 1987.

NEON

Kapéra, Jean. Aesthetics of Communication: Newspaper Art and Travel Art. 20, 217, 1987.

NEW ART

Hill, Anthony. About the Immediate Future of Modern Art. 20, 349, 1987.

NEWSPAPER ART

Kapéra, Jean. Aesthetics of Communication: Newspaper Art and Travel Art. 20, 217, 1987.

NUMBERS

Kapéra, Jean. Aesthetics of Communication: Newspaper Art and Travel Art. 20, 217, 1987.

0

O'Driscoll, Sean

Review of Left Side, Right Side: A Review of Laterality Research, Alan Beaton. 20, 100, 1987 (BR).

Osbourne, Rosamund

Letter (Construing Artistic Imagery, Creative Block; A.D. Jankowicz). 20, 297, 1987 (L).

P

PAINTING (CASEIN, TECHNIQUES)

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

PAINTINGS

Halaby, Samia A. Reflecting Reality in Abstract Picturing. 20, 241, 1987.

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

Senior, Alan. Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

PARTICIPATORY ART

Baschet, François and Baschet, Bernard. Sound Sculpture: Sounds, Shapes, Public Participation, Education. 20, 107, 1987.

PATTERNS

Senior, Alan. Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

Pecker, Jean-Claude

Smith, Cyril Stanley. The Tiling Patterns of Sebastien Truchet and the Topology of Structural Hierarchy. 20, 373, 1987.

Pecker, Jean-Claude

Letter (Satellite Art; Pierre Comte). 20, 298, 1987 (L).

Pepper, Andrew

Letter (Pulsed Holography as Art; Margaret Benyon with John Webster). 20, 207, 1987 (L).

PERCEPTION

Arnheim, Rudolf. The State of the Art in Perception. 20, 305, 1987.

PERFORMING SCULPTURE

Lijn, Liliane. Imagine the Goddess! A Rebirth of the Female Archetype in Sculpture. 20, 123, 1987.

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Era of Post-Historical Art. 20, 269, 1987.

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

PHOTOGRAPHY

Kapéra, Jean. Aesthetics of Communication: Newspaper Art and Travel Art. 20, 217, 1987.

Mańczak, Aleksandra. Photography and Textile Art: Tapestry in the Form of a Triptych. 20, 27, 1987.

Richardson, Martin. Mixed Media: Holography Within Art. 20, 251, 1987.

Semenoff, Nik. Superior Tusche Washes Using Dry Copier Toners. 20, 71, 1987.

PHOTOGRAPHY (TECHNIQUES)

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

Brush, Gloria DeFilipps. Photographing Small-Scale Objects: History, Context and Format. 20, 231, 1987.

Stahl, Frieda A. Physics As Metaphor and Vice Versa. 20, 57, 1987.

PIENE, OTTO

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

PIGMENTS

Rossol, Monona. Using Lead Painting Materials Safely. 20, 265, 1987.

Robson, Ernest. Research of the Sounds of Literature: Formant Music and a Prosodic Notation for Performance. 20, 131, 1987.

Stahl, Frieda A. Physics As Metaphor and Vice Versa. 20, 57, 1987.

Polansky, Larry

The Future of Music. 20, 363, 1987.

The Mills College Center for Contemporary Music's Seminar in the Formal Methods Series: A Documentary Survey. 20, 155, 1987.

POLYHEDRAL SCULPTURE

Wiggs, Robert Adolphus. Lines and Junctions and the Topology of Space. 20, 65, 1987.

Popper, Frank

Technoscience Art: The Next Step. 20, 301, 1987.

POPULISM IN ART

Baschet, François and Baschet, Bernard. Sound Sculpture: Sounds, Shapes, Public Participation, Education. 20, 107, 1987.

POST-MODERNISM

Hill, Anthony. About the Immediate Future of Modern Art. 20, 349, 1987.

PROSODYNIC PRINT

Robson, Ernest. Research of the Sounds of Literature: Formant Music and a Prosodic Notation for Performance. 20, 131, 1987.

PSYCHIATRY

Jankowicz, A.D. Construing Artistic Imagery: An Alternative Approach to Creative Block. 20, 39, 1987.

PSYCHOLOGY

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

Jankowicz, A.D. Construing Artistic Imagery: An Alternative Approach to Creative Block. 20, 39, 1987.

Maxwell, Robert. The Future of Publishing. 20, 361, 1987.

QIAN SONGYAN

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47,

R

Rand, Harry

Letter (The Display of Art: An Historical Perspective; David Carrier). 20, 209, 1987 (L).

Reichardt, Jasia

Machines and Art. 20, 367, 1987.

RELIGION

Hilloowala, Rumy and Oremland, Jerome. The St. Peter's Pietà: A Madonna and Child? An Anatomical and Psychological Reevaluation. 20, 87, 1987.

REPERTORY GRID CONVERSATION

Jankowicz, A.D. Construing Artistic Imagery: An Alternative Approach to Creative Block. 20, 39, 1987.

REPROGRAPHY

Brush, Gloria DeFilipps. Photographing Small-Scale Objects: History, Context and Format. 20, 231, 1987. Semenoff, Nik. Superior Tusche Washes Using Dry Copier Toners. 20, 71, 1987.

Richardson, Martin

Mixed Media: Holography within Art. 20, 251, 1987.

RICHES, MARTIN

Reichardt, Jasia. Machines and Art. 20, 367, 1987.

Reichardt, Jasia. Machines and Art. 20, 367, 1987.

Robson, Ernest

Research of the Sounds of Literature: Formant Music and Prosodic Notation for Performance. 20, 131, 1987.

Rossol, Monona

Using Lead Painting Materials Safely. 20, 265, 1987.

S

SAFETY

Rossol, Monona. Using Lead Painting Materials Safely. 20, 265, 1987.

SATELLITE ART

Comte, Pierre. Leonardo in Orbit: Satellite Art. 20, 17, 1987.

SCHLEMMER, OSKAR

Arnheim, Rudolf. Review of World War I and the Weimar Artists: Dix, Grosz, Beckmann, Schlemmer, Matthias Eberle. 20, 199, 1987 (BR).

SCHULZ, BRUNO

Vess, Sabine. Art as a Link Between Past and Future: Zinc Etchings Inspired by Bruno Schulz. 20, 35, 1987.

SCIENCE AND ENGINEERING EDUCATION

Coler, Myron A. Creators of Environment. 20, 309, 1987. SCULPTURES

Lijn, Liliane. Imagine the Goddess! A Rebirth of the Female Archetype in Sculpture. 20, 123, 1987.

SCULPTURES, VIEWER-SENSITIVE

Lijn, Liliane. Imagine the Goddess! A Rebirth of the Female Archetype in Sculpture. 20, 123, 1987.

Semenoff, Nik

Superior Tusche Washes Using Dry Copier Toners. 20, 71, 1987.

SEMINARS

Ames, Charles. Automated Composition in Retrospect: 1956-1986. 20, 169, 1987.

Polansky, Larry and Levin, John. The Mills College Center for Contemporary Music's Seminar in Formal Methods Series: A Documentary Survey. 20, 155, 1987.

Senoir, Alan

Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

Shields, Allan

Review of The Aesthetic Experience: An Anthropologist Looks at the Visual Arts, Jacques Maquet. 20, 198, 1987

Review of Charles Ives: The Ideas Behind the Music, Peter Burkholder. 20, 194, 1987 (BR).

Review of Great Masters of the Violin: From Corelli and Vivaldi to Stern, Zukerman and Perlman, Boris Schwarz. 20, 193, 1987 (BR).

Review of The Music Within You: How You Can Enhance Your Creativity, Communication and Confidence Through Music, Shelley Katsh and Carol Merle-Fishman. 20, 195, 1987 (BR).

Review of The Musical Mind: The Cognitive Psychology of Music, John A. Sloboda. 20, 193, 1987 (BR).

Review of The Work of Music and the Problem of Its Identity, Roman Ingarden. 20, 288, 1987 (BR).

Shortness, George K.

Interactive Sound Installations Using Microcomputers. 20, 149, 1987.

SIGNS AND SYMBOLS

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

Senior, Alan. Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

Smith, Cyril Stanley

The Tiling Patterns of Sebastien Truchet and the Topology of Structural Hierarchy. 20, 373, 1987.

SNOW, C.P.

Stahl, Frieda A. Physics As Metaphor and Vice Versa. 20, 57, 1987.

SOUND

Baschet, François and Baschet, Bernard. Sound Sculpture: Sounds, Shapes, Public Participation, Education. 20, 107, 1987.

SOUND SCULPTURE

Baschet, François and Baschet, Bernard. Sound Sculpture: Sounds, Shapes, Public Participation, Education. 20, 107, 1987.

Fontana, Bill. The Relocation of Ambient Sound: Urban Sound Sculpture. 20, 143, 1987.

Lijn, Liliane. Imagine the Goddess! A Rebirth of the Female Archetype in Sculpture. 20, 123, 1987.

SPACE ART

Comte, Pierre. Leonardo in Orbit: Satellite Art. 20, 17, 1987.

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

S'Soreff, Stephen

The Malleable Memory of Avant Garde Art Review (AGAR): A Post-Conceptual Artwork. 20, 387, 1987.

Stahl, Frieda A.

Physics as Metaphor and Vice Versa. 20, 57, 1987.

STELLA, FRANK

Carrier, David. Theoretical Perspectives on the Arts, Sciences and Technology. The Era of Post-Historical Art. 20, 269, 1987.

STEREO-IMAGES

Behrens, Roy R. The Life and Unusual Ideas of Adelbert Ames, Jr. 20, 273, 1987.

DeWitt, Tom. Visual Music: Searching for an Aesthetic. 20, 115, 1987.

STREETER, TAL

Goldring, Elizabeth. Desert Sun/Desert Moon and the Sky Art Manifesto. 20, 339, 1987.

SYMMETRY

DeWitt, Tom. Visual Music: Searching for an Aesthetic. 20, 115, 1987.

SYNTHESIZER, VOICE, SOUND, AUDIO

Kikauka, Laura and Paterson, Nancy. Misplaced Affection: A Computer-Controlled Interactive Household Appliance Environment. 20, 247, 1987.

Tamari, Vladimir

Review of Arthur Dove: Nature as Symbol, Sherrye Cohn. 20, 196, 1987 (BR).

TAPESTRY

Mańczak, Aleksandra. Photography and Textile Art: Tapestry in the Form of a Triptych. 20, 27, 1987.

TATLIN, VLADIMIR

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

TECHNOSCIENCE ART

Technoscience Art: The Next Step, Ed. 20, 301, 1987.

TELEVISION

Coleman, Connie. Exploring New Forms in the Visual Arts Through the Use of Electronic Tools: Videography and Computer Graphics. 20, 235, 1987.

TEXTILE ART

TEXTILE ART

Mańczak, Aleksandra. Photography and Textile Art: Tapestry in the Form of a Triptych. 20, 27, 1987.

THOMPSON, D'ARCY

Levy, Ellen K. Visualizing Evolution: A Painter's Interaction with Science and Technology. 20, 3, 1987.

Thurgood, Gwyneth

Letter (Comments on Editorial Opinions in Leonardo; Roger Malina, Rudolf Arnheim). 20, 211, 1987 (L).

TINGUELY, JEAN

Reichardt, Jasia. Machines and Art. 20, 367, 1987.

Tobisch, Othmar

Review of Art and Geology: Expressive Aspects of the Desert, Rita D. Abbey and William Fiero. 20, 285, 1987 (BR).

Toffler, Alvin

The Future and the Functions of Art. 20, 391, 1987.

TOPOLOGY

Emmer, Michele. Soap Bubbles in Art and Science: From the Past to the Future of Math Art. 20, 327, 1987.

Smith, Cyril Stanley. The Tiling Patterns of Sebastien Truchet and the Topology of Structural Hierarchy. 20, 373, 1987.

Wiggs, Robert Adolphus. Lines and Junctions and the Topology of Space. 20, 65, 1987.

Topper, David

Review of *The Culture of Time and Space: 1880-1918.* **20**, 287, 1987 (BR).

TRAVEL ART

Kapéra, Jean. Aesthetics of Communication: Newspaper Art and Travel Art. 20, 217, 1987.

TRUCHET SEBASTIEN

Smith, Cyril Stanley. The Tiling Patterns of Sebastien Truchet and the Topology of Structural Hierarchy. 20, 373, 1987.

Tsao, Leon

Review of Beyond Engineering: Essays and Other Attempts to Figure Without Equations, Henry Petrowski. 20, 97, 1987 (BR).

Review of Cultivating the Wasteland, Kirsten Beck. 20, 286, 1987 (BR).

Review of Film, Video and Television - Market Forces, Fragmentation and Technological Advance, Graham Wade. 20, 290, 1987 (BR).

Review of *The Periodic Table*, Primo Levi. **20**, 198, 1987 (BR).

TYPOGRAPHY

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

U

U.S.S.R.

Halaby, Samia A. Reflecting Reality in Abstract Picturing. 20, 241, 1987.

U.S.S.R. (CONSTRUCTIVIST ARCHITECTURE)

Bowlt, John. Review of Constructivist Architecture in the USSR, Anatole Kopp. 20, 197, 1987 (BR).

V

VAN SANT, TOM

Goldring, Elizabeth. Desert Sun/Desert Moon and the

Sky Art Manifesto. 20, 339, 1987.

VASULKA, WOODY

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

VEBLEN, THORSTEIN

Lloyd-Jones, Peter. Curators, Creators and Consumers. **20**, 353, 1987.

Vess, Sabine

Art As A Link Between Past and Future: Zinc Etchings Inspired by Bruno Schulz. 20, 35, 1987.

VIDEO

DeWitt, Tom. Visual Music: Searching for an Aesthetic. **20**, 115, 1987.

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

VIDEO SYNTHESIZER

Dietrich, Frank. The Computer A Tool for Thought-Experiments. 20, 315, 1987.

VIDEOGRAPHY

Coleman, Connie. Exploring New Forms in the Visual Arts Through the Use of Electronic Tools: Videography and Computer Graphics. 20, 235, 1987.

VISIBLE LANGUAGE

Marcus, Aaron. Diagrammatic Visible Language: An Investigation of Visual Logic. 20, 9, 1987.

VISUAL IMAGES

Arnheim, Rudolf. The State of the Art in Perception. 20, 305, 1987.

VISUAL LANGUAGE

Halaby, Samia A. Reflecting Reality in Abstract Picturing. 20, 241, 1987.

Woodward, Crystal. Art As Visual Language for Awareness of Self. 20, 225, 1987.

VISUAL MUSIC

DeWitt, Tom. Visual Music: Searching for an Aesthetic. **20**, 115, 1987.

W

Warren, Nik

Letter (Complementarity of Science and Art Courses; Nik Warren , Watten Dohemann). 20, 207, 1987 (L).

WATER

Senior, Alan. Embracing Wayward Nature: The Influence of Early Chinese Painting and Fractal Geometry on the Work of a Contemporary Artist. 20, 31, 1987.

Whitney, John

Letter (Visual Music and Harmony; Tom DeWitt). 20, 205, 1987 (L).

Wiggs, Robert Adolphus

Lines and Junctions and the Topology of Space. 20, 65, 1987.

Wilson, Stephen

Review of Artificial Intelligence: The Very Idea, John Haugeland; Mind Over Machine, Hubert L. Dreyfus and Stuart B. Dreyfus. 20, 195, 1987 (BR).

Woodward, Crystal

Art as Visual Language for Awareness of Self. 20, 225, 1987.

Review of Interactice Video, Eric Parsloe. 20, 97, 1987 (BR).

Xiaoping, Lin

Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

XU BEIHONG

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987.

YE QIANYU

Xiaoping, Lin. Contemporary Chinese Painting: The Leading Masters and the Younger Generation. 20, 47, 1987